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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,836	02/03/2004	Lauri Paatero	915-008.020	9737
	7590 04/23/200 OLA VAN DER SLUY	LUYS & ADOLPHSON, LLP  G 5  CHEN, SHIN HON  ART UNIT PAPER NUMB	IINER	
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MONROE, CT	REET, P O BOX 224 06468		ART UNIT	PAPER NUMBER
			2131	
			MAIL DATE	DELIVERY MODE
			04/23/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/771,836	PAATERO, LAURI	
Office Action Summary	Examiner	Art Unit	
	SHIN-HON CHEN	2131	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a rood will apply and will expire SIX (6) MON tute, cause the application to become AE	CATION.  eply be timely filed  THS from the mailing date of this communicati  ANDONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on <u>01</u> 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This action is application is in condition for allow closed in accordance with the practice under the practice.	his action is non-final. vance except for formal matt		is
Disposition of Claims			
4) ☐ Claim(s) 1-24 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers 9) ☐ The specification is objected to by the Examination of the specification is objected to by the Examination of the specification is objected.	rawn from consideration.		
10)☑ The drawing(s) filed on <u>03 February 2004</u> is/s  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the	ne drawing(s) be held in abeyar ection is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121	(d).
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents.</li> <li>2. Certified copies of the priority documents.</li> <li>3. Copies of the certified copies of the priority documents.</li> <li>* See the attached detailed Office action for a limit of the priority.</li> </ul>	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	Paper No(s	tummary (PTO-413) s)/Mail Date nformal Patent Application 	

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### **DETAILED ACTION**

1. Claims 1-24 have been examined.

### Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/1/08 has been entered.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1-3, 8-10 and 22-24 are rejected under 35 U.S.C. 102(a) as being anticipated by Cassagnol et al. U.S. Pub. No. 20020129245 (hereinafter Cassagnol).
- 5. As per claim 1, Cassagnol discloses a method comprising: receiving, in a secure environment in a terminal, via a secure channel, from a server outside said terminal, a first key for decrypting said encrypted application (Cassagnol: [0109]-[0112]: the keys are communicated between the VersaCrypt applets/secure environment at the key server and the VersaCrypt

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applets/secure environment in the apparatus...all communication between the key server and apparatus are encrypted); decrypting, in the secure environment, said encrypted application (204) by means of said first key (Cassagnol: [0025]: decrypt with first whitening key); re-encrypting, in said secure environment, the application by means of a second key (Cassagnol: [0025]: re-encrypt data with second whitening key); and storing, outside said secure environment, the re-encrypted application (Cassagnol: [0043]: the re-encrypted information is stored externally).

- 6. As per claim 2, Cassagnol discloses a method comprising: receiving an encrypted application in a terminal (Cassagnol: [0011]: receive encrypted information); receiving, in a secure environment in said terminal, via a secure channel, from a server outside said terminal, a first key for decrypting said encrypted application (Cassagnol: [0111]-[0112]: receiving key from key server through secure channel); encrypting, in said secure environment, said first key by means of a second key (Cassagnol: [0058]: the encrypted key is stored externally); and storing, outside said secure environment, the encrypted first key (Cassagnol: [0058]).
- 7. As per claim 3, Cassagnol discloses the method according to claim 1. Cassagnol further discloses encrypting, in said secure environment (205), said first key by means of the second key; and storing, outside said secure environment (205), the encrypted first key (Cassagnol: [0058]: keys are encrypted and stored externally).

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claims 1-3.

8. As per claim 8-10 and 22-24, claims 8-10 and 22-24 encompass the same scope as claims
1-3. Therefore, claims 8-10 are rejected based on the same reason set forth above in rejecting

# Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 4-6, 11-13, 15-17 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cassagnol in view of Matyas et al. U.S. Pat. No. 7051211 (hereinafter Matyas).
- 11. As per claim 4, Cassagnol discloses the method according to claim 1. Cassagnol does not explicitly disclose wherein said second key is symmetric and can be derived from the application (202). However, Matyas discloses generating a new key for re-encrypting protected software derived from the software (Matyas: column 10 lines 26-46: new key is generated from S and K and S is provided along with application). It would have been obvious to one having ordinary skill in the art to generate a new key based on information provided in the application because the derived information can be used as a seed in generating new key. Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to

combine the teachings of Matyas within the system of Cassagnol because it prevents malicious from using the first key by generating a new key based on additional information.

- 12. As per claim 5, Cassagnol discloses the method according to claim 4. Cassagnol as modified further discloses wherein said second key is comprised in the application (202) itself (Matyas: column 10 lines 26-46).
- 13. As per claim 6, Cassagnol discloses the method according to claim 4. Cassagnol as modified further discloses wherein said second key is generated in the secure environment (205) using an application seed (Cassagnol: [0025]: generating new key in the secure environment).
- 14. As per claim 11-13, 15-17 and 19-20, claims 11-13 encompass the same scope as claims 4-6. Therefore, claims 11-13, 15-17 and 19-20, claims 11-13 are rejected based on the same reason set forth above in rejecting claims 4-6.
- 15. Claims 7, 14, 18 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cassagnol in view of Takeuchi et al. U.S. Pat. No. 6647495 (hereinafter Takeuchi).
- 16. As per claim 7, Cassagnol discloses the method of claim 1. Cassagnol does not explicitly disclose wherein multiple keys can be transferred successively on the secure channel into the secure environment, each key being used to decrypt a corresponding encrypted application in the secure environment. However, Takeuchi discloses transmitting decryption key when protected

software is transmitted to the program execution program (Takeuchi: figure 1). It would have been obvious to one having ordinary skill in the art to process different software with different keys sequentially. Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to combine the teachings of Takeuchi within the system of Cassagnol because it is well known in the art to process multiple software within a single processor.

17. As per claim 14, 18 and 21, claims 14, 18 and 21 encompass the same scope as claim 7. Therefore, claims 14, 18 and 21 are rejected based on the same reason set forth above in rejecting claims 7.

### Response to Arguments

- Applicant's arguments filed on 4/1/08 have been fully considered but they are not 18. persuasive.
- 19. Regarding applicant's remarks, applicant argues that the prior office action did not show where exactly is the server. However, the examiner has indicated in prior office actions that the key server is disclosed in paragraph [0109]-[0111] of Cassagnol reference, not paragraph [0011] as argued by the applicant.
- 20. In addition, applicant argues the interpretation of whitening key is ambiguous and contradictory. However, the examiner has relied on [0025] of Cassagnol to discloses a first whitening key/first key and second whitening key/second key to decrypt and re-encrypt

information received at the secure environment. Therefore, applicant's argument is traversed in

light of above clarification and explanation.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to SHIN-HON CHEN whose telephone number is (571)272-3789.

The examiner can normally be reached on Monday through Friday 8:30am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shin-Hon Chen Examiner

Art Unit 2131

/Shin-Hon Chen/

Primary Examiner, Art Unit 2131